IRRIGATION DESIGN

Landowner _____ **Dealer/Designer** _____

Location _____ **Acres** _____

Resource Inventory on System _____ **(Pivot, wheeline, solid set, trickle, drip, etc)**

Soils _____

Water holding capacity _____ in/ft

Soil depth _____ft

Total available water _____ inches

Maximum soil intake rate _____ in/hour

Crops grown _____

Moisture extraction depth _____ ft

Net moisture applied _____ in/irrigation

Peak monthly use rate _____ in/month

Peak period use rate _____ in/day

Maximum irrigation frequency _____ days

MAD _____ %

System information type and model _____ **(impact sprinkler, rotator, spray, etc)**

Application efficiency _____ %

CU / DU _____

Gross application per irrigation _____ in

Net application rate _____ in/hr

Sprinkler spacing _____ ft on lateral

Sprinkler spacing _____ ft on mainline

Discharge _____ gpm/sprinkler

Nozzle size _____

Nozzle pressure _____ psi or _____ ft

Wetted sprinkler diameter _____ ft

Max lateral length _____ ft

Typical lateral length _____ ft

Max sprinklers per lateral _____

Typical sprinklers per lateral _____

Pressure loss in lateral _____ ft

Pressure loss in mainline _____ ft

Pumping suction lift _____ ft

Net gain or loss of elevation _____ ft

Miscellaneous friction loss _____ ft

Total dynamic head TDH _____ ft

System capacity _____ gpm

Efficiency of pump _____ %

Horsepower required _____ ft

Pipe Installed

Size	Feet	Type	Pressure/schedule

- Pivot designs require, end gun info, sprinkler layout chart, % timer chart, degree of operation, and pressure at hub.
- Practice Standard attached.